

What is claimed is:

1. A secondary structure of a linear stepping motor, which comprises a plurality of permeance sheets and a plurality of insulating sheets; said permeance sheets and said insulating sheets are made in a thin plate shape, said permeance sheets being made of a first material having good permeance while said insulating sheets being made of a second material having poor permeance, and besides, said permeance sheets and said insulating sheets are arranged in stagger and combined together.
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2. A secondary structure of a linear stepping motor as recited in claim 1, wherein said first material having good permeance is silicon steel.
- 10 3. A secondary structure of a linear stepping motor as recited in claim 1, wherein said first material having good permeance is pure iron.
4. A secondary structure of a linear stepping motor as recited in claim 1, wherein said second material having bad permeance is glass fiber.
- 15 5. A secondary structure of a linear stepping motor as recited in claim 1, wherein said permeance sheets have a plurality of permeance teeth used in planar linear stepping motor.
6. A secondary structure of a linear stepping motor as recited in claim 5, wherein clearance of said permeance teeth can be filled with colloid.
7. A secondary structure of a linear stepping motor as recited in claim 1, wherein a first
20 method used for connecting and combining said permeance sheets and said insulating sheets arranged in stagger is pressurizing to combine.
8. A secondary structure of a linear stepping motor as recited in claim 1, wherein a second method used for combining said permeance sheets and said insulating sheets arranged in stagger is gluing with colloid.

9. A secondary structure of a linear stepping motor as recited in claim 1, wherein a third method used for combining said permeance sheets and said insulating sheets arranged in stagger is using a plurality of screws.

10. A manufacturing method of said secondary structure of said linear stepping motor,
5 comprising the steps of:

- a. using a first plate of said permeance material to make said permeance sheets with a first contour designed in advance, and using a second plate of said insulating material to make said insulating sheets with a second contour designed in advance;
- 10 b. arranging said permeance sheets and said insulating sheets in stagger one by one, and
- c. combining said permeance sheets and said insulating sheets which are arranged well,

whereby said secondary structure of said linear stepping motor is manufactured.

15 11. A manufacturing method of said secondary structure of a linear stepping motor as recited in claim 10, wherein a manufacturing method of said contour designed in advance is punching.